

Blue

Work Order ID 62621



Page 1

October 5, 2010 11:49:40 AM

Item ID: D206-642-441

Accept



Setup Start



Revision ID:

Stop



Item Name: Replacement Skidtube

Start Date: 10/05/10 Start Qty: 1.00



Cust Item ID:

Required Date: 10/22/10 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan:

RL

Date: 10-10-04 Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D2650

Rev F

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D206-642-441 CHG002

N/A *[Signature]*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

110



Skidtubes

Skidtubes

Skidtubes

Memo

0.00

1-Debur Fwd edge of tube

2-Remove ridge on inside of Fwd edge of tube as per Dwg D2650

3-Weld Fwd Cap as per Dwg D2650. Use aluminum rod. Grind D2647 to fit as required.

A/R ☐ Aluminum Rod

min 385 / min 5778

4-Grind weld flush to cap on top surface only.

5-Cut aft end 138.60" from front of tube

6-Drill pilot holes using drill jig DT8025 & DT8169 (A,B,C,D). Open to Ø0.312".

7-Drill holes for wearplates using DT 8028-7. Open to Ø 0.297".

8-Open using #6 Drill Bit

9-Open holes for Tow Ring to Ø0.625" as per Dwg D2650, D2650-7 Drilling Detail

10-Remove inner indexing ridge on aft end of skidtube as per Dwg D2650

11-Debur and Blow out all chips from inside the tube

1 *—* *2610/10/13*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Item ID: D206-642-441

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Setup Start

Revision ID:

Stop

Item Name: Replacement Skidtube

Start Date: 10/05/10 Start Qty: 1.00

Required Date: 10/22/10 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

115

QC5- Inspect part completeness to step on W/O

0.00

QC

Memo

0.00

Quality Control

116

QC10- Inspect visual per QSI004- ground welds

0.00

QC

Memo

0.00

Quality Control

120

Chemical Conversion Coat per QSI005 4.1

0.00

HandFinish

Memo

0.00

Hand Finishing

DP

10-10-15

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Item Name: Replacement Skidtube

Start Date: 10/05/10 / Start Qty: 1.00

Cust Item ID:

Required Date: 10/22/10 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

QC3- Inspect Part Finish

0.00 -



QC

Memo

0.00

Quality Control

1 - BE 10/10/19

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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Item ID: D206-642-441

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Setup Start



Revision ID:

Stop



Item Name: Replacement Skidtube

Start Date: 10/05/10 Start Qty: 1.00



Cust Item ID:

Required Date: 10/22/10 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

140

0.00



Skidtubes

Skidtubes

Memo

0.00

1-Open holes to finished size as per Dwg D2650, D2650-7 Drilling Detail
(without cutting fluid)

2-Countersink crossbolt spacer holes as per Dwg D2650(without cutting fluid)

3-Deburr. Blow out chips. Grind alodine off around crossbolt spacer.

4-Bond D2654-7 web in place as per QSI 015Ensure holes line upAllow 12 Hrs.
cure time before cutting

☐ Start Date: 10/10/21

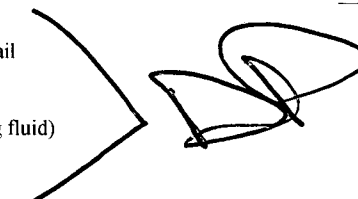
Time: 11:30

☐ Finish Date: 10/10/21

Time: 3:10 PM

A/R ☐ Sikaflex-291 ☐ M115114 ☐

Sikaflex expiry date: 11/01/01



10-10-19

BB/10/10/21

BB 10/10/21

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Reference:

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Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

150

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

8/10/10/25

40

160

Skidtubes

0.00



Skidtubes

Memo

0.00

Skidtubes

1-Prep per QSI 005 and Insert cross bolt spacers D2649. Weld as per QSI 004 and Dwg D2650. Remember to back drill each hole to 0.25" before welding the other side. Use aluminum rod.
A/R Aluminum Rod M111385 8E-10/10/26

2-Grind welds flush as per Dwg D2650.

3-Counterbore 5/16" x 0.750" deep as per Dwg D2650 Deburr

> DP

10-10-27

Work Order ID 62621

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Item ID: D206-642-441

Accept



Setup Start



Revision ID:

Stop



Item Name: Replacement Skidtube

Start Date: 10/05/10 Start Qty: 1.00



Cust Item ID:

Required Date: 10/22/10 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

170

0.00



HandFinishing

Skidtubes

Memo

0.00

Skidtubes

Install D2680-041 Nut Plate as per Dwg D2650

DP

10-10-27

180

0.00



QC10- Inspect visual per QSI004- ground welds

QC

Memo

0.00

Quality Control

8/10/27

190

0.00



QC5- Inspect part completeness to step on W/O

QC

Memo

0.00

Quality Control

8/10/27

Work Order ID 62621

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Item ID: D206-642-441

Accept



Setup Start



Revision ID:

Stop



Item Name: Replacement Skidtube

Start Date: 10/05/10 Start Qty: 1.00



Cust Item ID:

Required Date: 10/22/10 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

200

Pressure Wash per QSI005 4.3

0.00

⇒ 10/10/20



HandFinish

Memo

0.00

Hand Finishing

Brush alodine tube on crossbolt spacer area, do not acid etch, do not dip tube in tank.

XL 0

211

0.00



SprayPaint

Memo

0.00

Spray Painting

PRIME B 115967
PAINT DELFLEET BLUE B 115509
CLEAR DELFLEET B 115949

10 11 03 11

221

QC14- Inspect Spray Paint

0.00



QC

Memo

0.00

Quality Control

85 10-11-04 (X1)

Work Order ID 62621

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Item ID: D206-642-441

Accept



Setup Start



Revision ID:

Stop



Item Name: Replacement Skidtube

Start Date: 10/05/10 Start Qty: 1.00



Cust Item ID:

Required Date: 10/22/10 Req'd Qty: 1.00



Customer:

Reference:


Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
230  HandFinish Hand Finishing	HandFinishing Memo 1-Install inserts & wearpads as per dwg D2922. Use a drop of Sikaflex inside insert holes before installing wearpad/wearplate. A/R <input type="checkbox"/> Sikaflex-291 <input type="checkbox"/> 11/11/09 <input type="checkbox"/> Sikaflex expiry date: <input type="checkbox"/> 10/10 2-Install O-Rings D2651-3 on plugs D2651-1 with Petroleum Jelly and install plugs as per Dwg D2650. Clean excess adhesive 3-Install MS27039-4-06 Screw as per DEO 9153 4-Inspect for foreign object per QSI 024 5-Install D2646 Aft Cap and seal with SikaflexClean excess adhesive A/R <input type="checkbox"/> Sikaflex-291 <input type="checkbox"/> 11/11/09 <input type="checkbox"/> Sikaflex expiry date: <input type="checkbox"/> 10/10 6-Wing Walk as per Dwg D2650-7 and QSI 005 44 Batch: 1115790	0.00 0.00		1010105			X10		

Work Order ID 62621

October 5, 2010 11:50:02 AM



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Item ID: D206-642-441

Accept



Setup Start



Revision ID:

Stop



Item Name: Replacement Skidtube

Start Date: 10/05/10 Start Qty: 1.00



Cust Item ID:

Required Date: 10/22/10 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

240

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

Solve

76

250

Packaging

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D206-642-441

Location: 119

PPP Rev: _____

AP62 64

10/11/09

260

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

ef 10/11/09 MF 10-11-9

Picklist Print

October 5, 2010 11:49:28 AM

Page 1

Work Order ID: 62621

Parent Item: D206-642-441

Parent Item Name: Replacement Skidtube

Start Date: 10/05/10

Required Date: 10/22/10

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:H 05.10.11 Added D3429-1 per CHG002 KJ/CP/JLM
 IPP Rev:I 08-05-01 add QC3 DD verified by:EC
 IPP Rev:J 08-09-29 revF as per dwg DD verified by: EC IPP rev K
 10.09.27 SS washers for wearplates EC verified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
ALS4-1032-130		Purchased	No			230	Each	1,214.000	60	60			
Insert													

Location	Loc Qty	Loc Code
PKG11	1165	
114723	1165	
ST282	10	
110511	10	M115911
ST381	39	
114654	39	

AN960JD10L	NAS1149D0332J	Purchased	No			230	Each	0.0000	2	2			
Washer													
AN960JD416	NAS1149D0463J	Purchased	No			230	Each	24.0000	1	1			
Washer													

Location	Loc Qty	Loc Code
ST300	24	
113288	24	M115622

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Picklist Print

October 5, 2010 11:49:29 AM

Page 2

Work Order ID: 62621

Parent Item: D206-642-441

Parent Item Name: Replacement Skidtube

Start Date: 10/05/10

Required Date: 10/22/10

Start Qty: 1.00

Required Qty: 1.00

CCR264SS3-3

Purchased

No

170

Each

446.0000

2

2



Cherry Rivet

Location

Loc Qty

Loc Code

ST311

446

112314

4

112539

44

113973

398

②

DP 10-10-27

CR3212-4-03

Purchased

No

230

Each

1,888.000

2

2



Cherry Rivet

Location

Loc Qty

Loc Code

ST311

1888

111359

5

112314

2

114436

448

114450

71

114859

1362

②

DP 10-10-27

D2620

Manufactured

No

110

Each

8.0000

1

1



Skidtube, 206 Skidtube

Location

Loc Qty

Loc Code

LG

8

61632

8

BE 10/10/13

October 5, 2010 11:49:29 AM

Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Work Order ID: 62621

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Parent Item Name: Replacement Skidtube

Start Date: 10/05/10

Required Date: 10/22/10

Start Qty: 1.00

Required Qty: 1.00

D2646

Manufactured No

110

Each

50.0000

1

1



Aft Cap

blue

Location

Loc Qty

Loc Code

FP-4

45

B62652

57332

45

fp5

1

61752

1

FP6

4

52663

4

D2647

Manufactured No

140

Each

66.0000

1

1



Cap

Location

Loc Qty

Loc Code

FP

66

55352

66

D2649

Manufactured No

170

Each

65.0000

23

23



Cross Bolt Spacer

Location

Loc Qty

Loc Code

LG

65

58545

2

60652

4

61496

59

262889 (23) BE 10/10/26

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Shop Packet Print

Page 3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Parent Item: D206-642-441

Parent Item Name: Replacement Skidtube

Start Date: 10/05/10

Required Date: 10/22/10

Start Qty: 1.00

Required Qty: 1.00

D2651-1

Manufactured No

230

Each

622.0000

22

22



Plug

blue

Location

Loc Qty

Loc Code

FP

252

51530

152

61751

100

fpa

370

53349

235

57869

135



YH 10/11/05

D2651-3

Manufactured No

230

Each

626.0000

22

22



O-Ring

Location

Loc Qty

Loc Code

FP

626

46114

130

61962

496



YH 10/11/05

D2654-7

Manufactured No

160

Each

0.0000

1

1



Web

B62686

D2680-041

Manufactured No

170

Each

29.0000

1

1



Nut Plate

Location

Loc Qty

Loc Code

ST021

55366

29

①

DD 10-10-27

October 5, 2010 11:49:30 AM

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W/O:		WORK ORDER CHANGES					
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Parent Item Name: Replacement Skidtube

Start Date: 10/05/10

Required Date: 10/22/10

Start Qty: 1.00

Required Qty: 1.00

D3535-15
Wearshoe

Manufactured No

230 Each

6.0000

1

1

Location

Loc Qty

Loc Code

FP18

6

61241

6

D3535-23
Wearshoe

Manufactured No

230 Each

19.0000

1

1

Location

Loc Qty

Loc Code

FP

7

61830

7

FP021

20

60231

11

D3535-37
Wearshoe

Manufactured No

230 Each

9.0000

1

1

Location

Loc Qty

Loc Code

FP

9

56101

9

D3536-15
Gasket

Manufactured No

230 Each

10.0000

1

1

Location

Loc Qty

Loc Code

FP

9

56055

1

60875

8

FP11

1

59238

1

October 5, 2010 11:49:30 AM

Shop Packet Print

Page 5

W/O:		WORK ORDER CHANGES					
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Picklist Print

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Work Order ID: 62621

Parent Item: D206-642-441

Parent Item Name: Replacement Skidtube

Start Date: 10/05/10

Required Date: 10/22/10

Start Qty: 1.00

Required Qty: 1.00

D3536-23

Manufactured No

230

Each

8.0000

1

1



Gasket

Location

Loc Qty

Loc Code

FP011

8

1363391

X1

61237

8

D3536-37

Manufactured No

230

Each

8.0000

1

1



Gasket

Location

Loc Qty

Loc Code

FP

8

X1

56102

8

D3537-1

Manufactured No

230

Each

14.0000

6

6



Wearpad

Location

Loc Qty

Loc Code

FP

1

55465

1

FP17

13

362661

X6

57713

3

60491

3

61640

7

D3537-3

Manufactured No

230

Each

8.0000

1

1



Wearpad

Location

Loc Qty

Loc Code

FP17

8

60866

8

361674

X1

October 5, 2010 11:49:31 AM

Shop Packet Print

Page 6

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 7

Work Order ID: 62621

Parent Item: D206-642-441

Parent Item Name: Replacement Skidtube

Start Date: 10/05/10

Required Date: 10/22/10

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-08

Purchased

No

230

Each

1,585.000

2

2



Screw



ll 10/11/05

Location

Loc Qty

Loc Code

ST291

1585

110835

473

114718

112

115108

1000

x2

MS27039-4-06

Purchased

No

230

Each

108.0000

1

1



Screw



ll 10/11/05

Location

Loc Qty

Loc Code

ST292

108

109061

14

115460

94

v1

MS27039C1-08

Purchased

No

230

Each

1,077.000

60

60



SCREW



ll 10/11/05

Location

Loc Qty

Loc Code

FP

276

115336

276

ST293

801

115589

800

19185

1

1116022

x2

v58

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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NOTE: Date & initial all entries

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Page 8

Work Order ID: 62621



Parent Item: D206-642-441



Parent Item Name: Replacement Skidtube

Start Date: 10/05/10

Required Date: 10/22/10

Start Qty: 1.00

Required Qty: 1.00

NAS1149C0332R

Purchased

No

230

Each

5,239.000

60

60



10/10/10

Washer

Location

Loc Qty

Loc Code

ST297

5239

113524

10

113737

150

115000

125

115698

78

115816

1276

115832

3600

X60

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Page 8

W/O:		WORK ORDER CHANGES					
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

QTY -1	QTY -3	QTY -5	QTY -7	PART NUMBER	DESCRIPTION
X				D2650-1	SKIDTUBE ASSEMBLY
	X			D2650-3	SKIDTUBE ASSEMBLY
		X		D2650-5	SKIDTUBE ASSEMBLY
			X	D2650-7	SKIDTUBE ASSEMBLY
1	1	1	1	D2600-1-160	EXTRUSION
1				D2654-1	WEB
	1			D2654-3	WEB
		1		D2654-5	WEB
			1	D2654-7	WEB
1	1	1	1	D2646	AFT CAP
1	1	1	1	D2647	CAP
17	18	19	23	D2649	CROSS BOLT SPACER
16	18	14	22	D2651-1	PLUG
16	18	14	22	D2651-3	O-RING
1	1	1	1	D2680-041	NUT PLATE
2	2			D3286-1	DOUBLER
2	2			D3286-3	STUD
42	44	54	60	ALS7-1032-130	INSERT (or AKS4-1032-130, ALS4-1032-130, ALS7-1032-130)
2	2	2	2	AN960JD10L	WASHER
2	2	2	2	CCR264SS3-3	RIVET
2	2	2	2	CR3212-4-03	RIVET
2	2	2	2	MS27039-1-08	SCREW
1	1	1	1	MS27039-4-06	SCREW
1	1	1	1	AN960JD416	WASHER
52	52			CR3212-4-04	RIVET

F

SHOP COPY
RETURNED
EXCEPT
UNCONTROLLED COPY
SUBJECT TO
WITH
WORK
NO. *62621*
PS10-10-05

RELEASED
08-07-23/17

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: -CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
-POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
-BLACK ANTI-SKID PAINT AS INDICATED TO 0.5 ABOVE LOCATION RIDGE PER DART QSI 005 4.4
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A
- 8) WELD PER DART QSI 004
- 9) DAMAGE TOLERANCE ON FWD BEND:
THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 5 INCHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0.020 DEEP IN THE BENT PORTION OF THE TUBE. A MAXIMUM REDUCTION IN DIAMETER OF 0.150" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.
- 10) BOND WEB INTO OUTER TUBE WITH SIKAFLEX-241/-291 ADHESIVE PER DART QSI 015
- 11) INSERT D2651-1 PLUG C/W D2651-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE)
- 12) DRILL Ø0.297 FOR ALS7-1032-130 INSERTS USING TEMPLATE DT8056-1 ON -1 TUBE, DT8056-3 ON -3 TUBE, DT8056-5 ON -5 TUBE, AND DT8056-7 ON -7 TUBE. INSTALL INSERTS AFTER FINISH.
- 13) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

F	DRAWING UPDATED TO CURRENT STANDARDS. SHT 6 ADDED. ALL SECTION AND DETAIL VIEWS TRANSFERRED TO SHT 6. SHT 1 IN PL PART D2649 QTY UPDATED. SHT 6 SECT C-C GRIND INSTRUCTIONS DELETED FROM NOTE 7 (SEE NCR 239).	AJS	08.08.08
E	REMOVE CBORE, CHG DRILL, ADD CHAMFER	CP	06.03.30
D	REDRAW: INCORP. DE09136/9153/9163 MOD GROUND HANDLING ON D2650-1/-3	CP	04.05.17
C	CHANGE HOLE PATTERN AND FRONT END	DS	97.10.29
B	AS MANUFACTURED CHANGES	DS	97.06.26
A	NEW ISSUE	DS	97.03.25
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE USA, INC	
DRAWN	AJS	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. F
MFG. APPR.		D2650	SHEET 1 OF 6
APPROVED		TITLE	SCALE
DE APPR.		206/407 SKIDTUBE ASSEMBLIES	NTS
DATE	08.08.08	COPYRIGHT © 1997 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

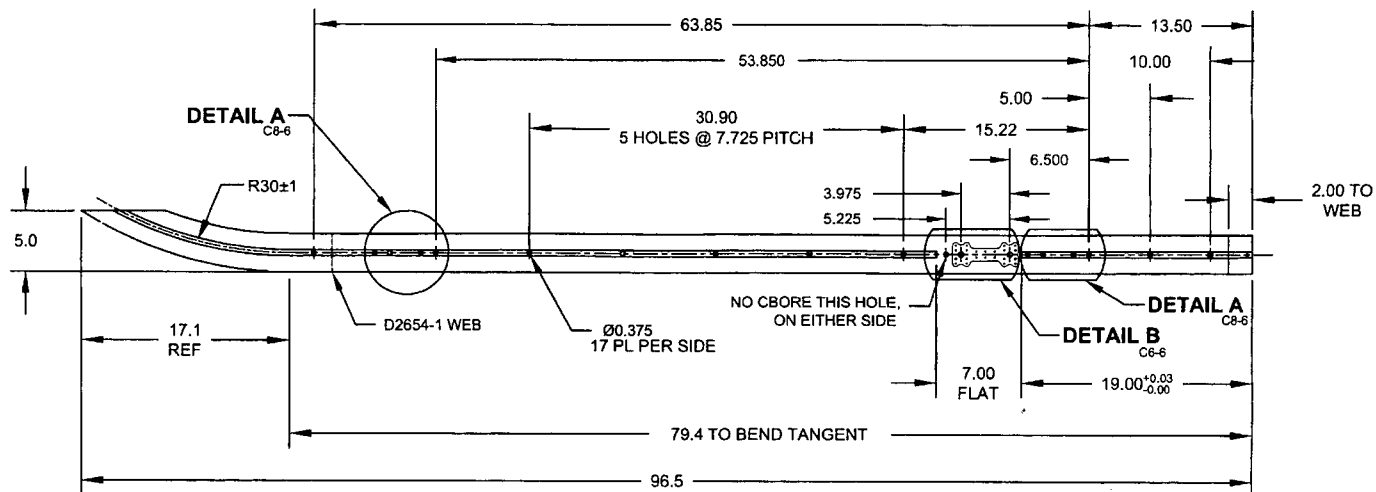
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

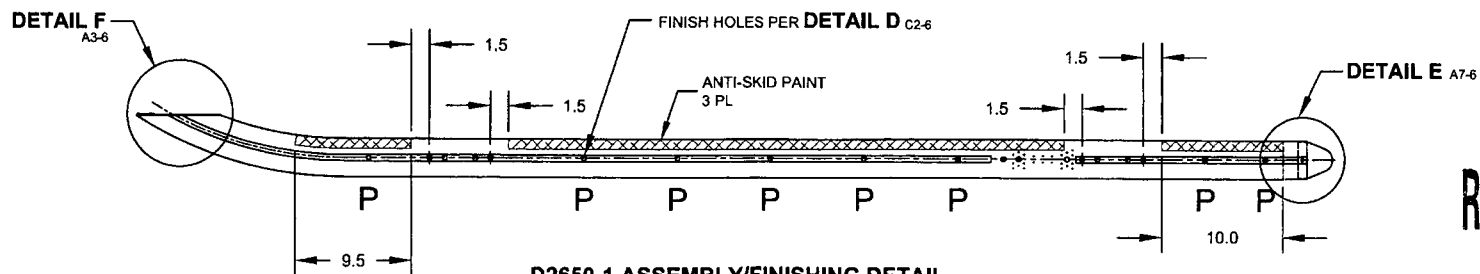
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries







D2650-1 BENDING/DRILLING DETAIL

W/O 62621



D2650-1 ASSEMBLY/FINISHING DETAIL

RELEASED
820722/11P

DESIGN	DS	DART AEROSPACE USA, INC	
DRAWN	AJS	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. F
MFG. APPR.		D2650	SHEET 2 OF 6
APPROVED		TITLE	SCALE
DE APPR.		206/407 SKIDTUBE ASSEMBLIES	NTS
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

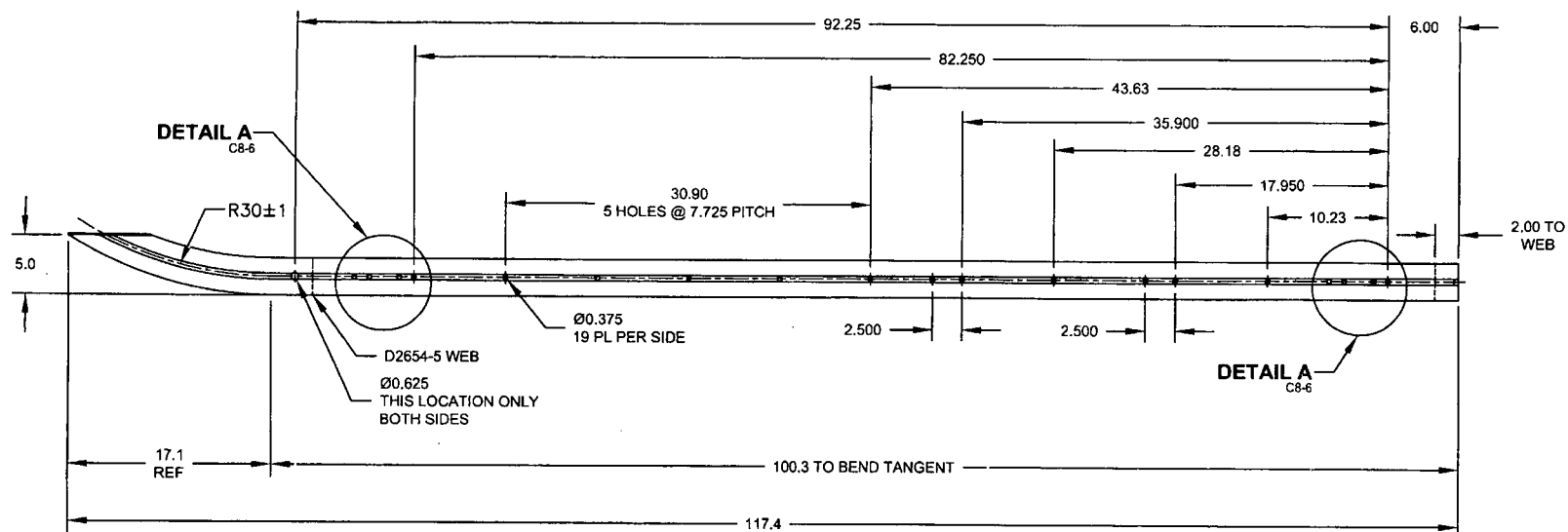
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

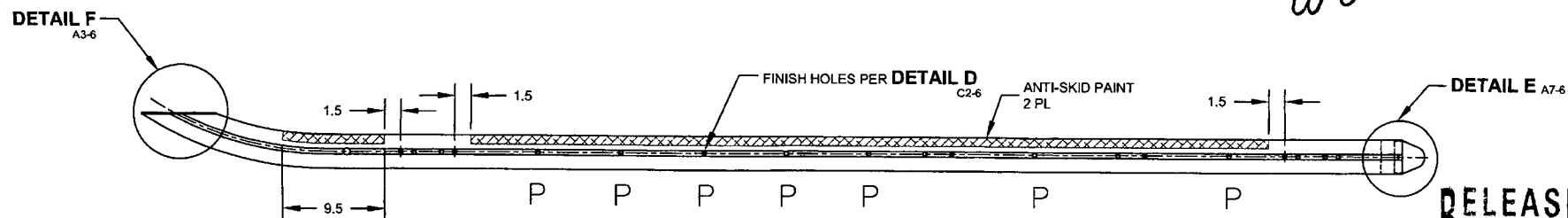
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D2650-5 BENDING/DRILLING DETAIL



D2650-5 ASSEMBLY/FINISHING DETAIL

DESIGN	DS	DART AEROSPACE USA, INC	
DRAWN	AJS	PORT HADLOCK, WA	
CHECKED	J	DRAWING NO.	REV. F
MFG. APPR.	B	D2650	SHEET 4 OF 6
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DE APPR.	H	206/407 SKIDTUBE ASSEMBLIES	NTS
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RELEASED
08.09.22.117

w/b 62621

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

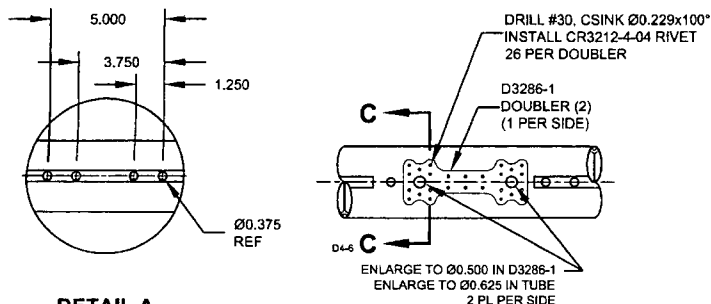
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

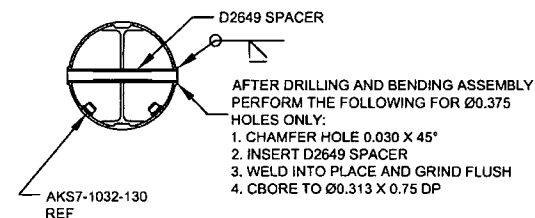
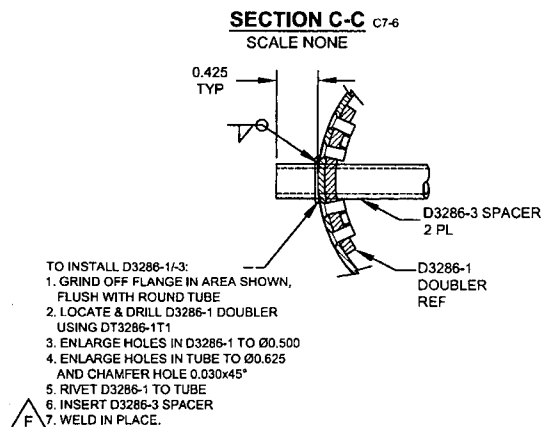
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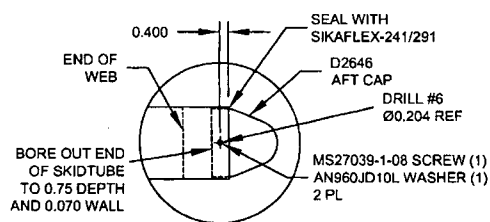
DETAIL A
SCALE 2X
C2-2
D7-2
C2-3
D7-3
C2-4
D7-4
C2-5
D6-5

DETAIL B
SCALE 2X
C3-2
C3-3

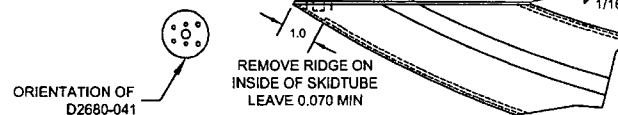


DETAIL D
FOR Ø0.375 HOLES ONLY
SCALE 3X
B4-2
B4-3
B4-4
B4-5

Wo 62621



DETAIL E
SCALE 2X
B2-2
B2-3
B1-4
B1-5



DETAIL F
SCALE NONE
B8-2
B8-3
B8-4
B8-5

- DETAIL F NOTES:**
- CUT TUBE LEVEL
 - REMOVE RIDGE ON FWD SIDE
 - LOCATE D2647 (TRIM AS NECESSARY)
 - WELD D2647 IN PLACE PER DART QSI 004
 - GRIND FLUSH
 - RIVET D2680-041 NUT PLATE IN PLACE

NOTE: MASK THREADS IN D2680-041 PRIOR
TO FINISH

RELEASED
08-09-22-19

DESIGN	DS	DART AEROSPACE USA, INC	
DRAWN	AJS	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. F
MFG. APPR.		D2650	SHEET 6 OF 6
APPROVED		TITLE	SCALE
DE APPR.		206/407 SKIDTUBE ASSEMBLIES	NTS
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NO. 241

AWS D17.1.2001
QUALIFICATION TEST RECORD

Name: Barclay Elliott
Job number: 62280
Part number: D206.442.541
Description: 206 skid
Welding Process: Tig[☒] Mig[]
Base material: Aluminium
Current: AC[☒] DC[]

TEST REQUIREMENTS AND RESULTS

Visual: pass[☒] fail[]
Penetration: pass[☒] fail[]

UNACCEPTABLE

Cracks: pass[☒] fail[]
Undercut: pass[☒] fail[]
Pin holes: pass[☒] fail[]
Overlap (cold lap): pass[☒] fail[]
Porosity (surface): pass[☒] fail[]
Coloration: pass[☒] fail[]

Qualifier Paul D Date of Test Coupon 10.09.30
Welder Barclay Elliott Date of Test Coupon 10.09.30

The above named individual is qualified in accordance with AWS D17.1.2001 to weld.